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on June 7, 2010.

PATENT  
Attorney Docket No.: 029060-000200US

PATENTIQUE PLLC

By: /Arlene C. Granlund/

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:  
**KRZRYSZTOF PALCZEWSKI et al.**  
Application No.: 10/801,078  
Filed: March 15, 2004  
For: STABILIZED MUTANT OPSIN  
PROTEINS  
Customer No.: 70680

Conf. No. 9475

Examiner: Huang, G.G.

Art Unit: 1612

**SECOND SUPPLEMENTAL AMENDMENT  
AND RESPONSE UNDER 37 C.F.R. § 1.111**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This is a Second Supplemental Response to the Office Action mailed November 15, 2009, to which a fully responsive reply was filed on January 15, 2010. No fees are believed to be due with this Second Supplemental Response.

Reconsideration in light of the response filed January 15, 2010, as well as the Supplemental Response filed April 6, 2010, and the following is respectfully requested.

**Amendments to the Specification** begin on page 2 of this paper.

**Amendments to the Claims** are reflected in the listing of claims which begins on page 4 of this paper.

**Remarks/Arguments** begin on page 8 of this paper.